

**THAT WHICH IS CLAIMED IS:**

1. Process for reducing the electrical consumption of a transmitter/receiver of digital information, in particular a cellular mobile telephone, comprising a frequency synthesizer stage controlled by  
5 an automatic frequency control algorithm and able to deliver at least one reference signal of chosen frequency to the transmission/reception stage of the telephone and a master-clock signal of chosen frequency to the modulation/demodulation means of the  
10 transmitter/receiver, characterized in that the reference signal or signals are generated with a predetermined transmission accuracy, on the basis of at least a first fractional-division phase-locked loop (EPPL) controlled by the automatic frequency control  
15 algorithm and receiving a base signal (SBA) having a predetermined base frequency and a base accuracy lower than the said transmission accuracy, a clock signal (SH) is generated with a predetermined accuracy, on the basis of a second fractional-division phase-locked loop  
20 (MCPLL) controlled by the automatic frequency control algorithm and receiving the base signal, and when the transmission/reception stage is inactive, the second fractional-division phase-locked loop (MCPLL) is rendered inactive, the base signal (SBA) then being the  
25 master-clock signal, and when the transmission/reception stage is active, the second loop is activated, the clock signal (SH) delivered by this loop then being the master-clock signal (SHM).

2. Device for transmitting/receiving digital information, in particular cellular mobile telephone, comprising a transmission/reception stage (RXC, TXC), a

at least a first fractional-division phase-locked loop (EPLL) whose output, linked to the transmission/reception stage, is able to deliver, with a predetermined transmission accuracy, the reference signal and a second fractional-division phase-locked loop (MCPLL) whose output is able to deliver, with a predetermined accuracy, a clock signal (SH), each loop being able to adopt on command an active state and an inactive state and possessing a control input linked to the automatic frequency control means, as well as an input for receiving a base signal (SBA) emanating from an oscillator (QT) and having a predetermined base frequency and a base accuracy lower than the said transmission accuracy, and

and in that it furthermore comprises control means (MCD) able to place the second loop in its  
35 inactive state and the switching means in their first

3. Device according to claim 1, characterized in that each loop (EPLL, MCPLL) is a delta-sigma modulation fractional-division phase-locked loop.

add 91